

SEQUENCE LISTING

Board of Regents, The University of Texas System Gorenstein, David G. Luxon, Bruce A. Herzog, Norbert Tang, Xian B. <120> BEAD BOUND COMBINATORIAL OLIGONUCLEOSIDE PHOSPHOROTHIOATE AND PHOSPHORODITHIOATE APTAMER LIBRARIES <130> UTMB:1024 <140> 10/828935 <141> 2004-04-21 <150> 60/334,887 <151> 2001-11-15 <150> 10/272,509 <151> 2002-10-16 <160> 70 <170> PatentIn version 3.3 <210> 1 <211> 15 <212> DNA <213> Artificial <220> <223> Synthetic oligonucleotide. <220> <221> misc feature Description of Artificial Sequence: synthetic oligonucleotide <400> 1 15 ggatccggtg gtctg <210> 2 <211> 15 <212> DNA <213> Artificial <220> <223> Synthetic oligonucleotide. <220> <221> misc feature <223> Description of Artificial Sequence: synthetic oligonucleotide <400> 2

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15

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      wherein at least one nucleotide is an achiral thiophosphate or
      dithiophosphate
<220>
<221> modified base
<222> (1)..(23)
<223> wherein at least one nucleotide is an achiral thiophosphate or
      dithiophosphate at positions 1, 3, 5, 7, 9, 11, 13, 15, 17, 19,
      21, 23.
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      21, 23.
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<223> wherein at least one nucleotide is an achiral thiophosphate or
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cgtcaagtct cagttcccat tt
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      (1)..(22)
      wherein at least one nucleotide is an achiral thiophosphate or
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<223> Synthetic oligonucleotide.
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<220>
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      (1)..(22)
<223> wherein at least one nucleotide is an achiral thiophosphate or
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                                                                     22
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<223> Synthetic oligonucleotide.
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      (1)..(22)
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atgtagccga aggtggaacc cc
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<223> Synthetic oligonucleotide.
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<221> modified base
<222> (1)..(22)
<223> wherein at least one nucleotide is an achiral thiophosphate or
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<400> 28
                                                                     22
cgccagccga aggtggaacc cc
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<223> Synthetic oligonucleotide.
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<222>
      (1)..(22)
<223>
      wherein at least one nucleotide is an achiral thiophosphate or
       dithiophosphate at positions 10.
<400> 31
cgccagccga aggtgctgtc ag
                                                                     22
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<223> Synthetic oligonucleotide.
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<221> modified base
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<223> wherein at least one nucleotide is an achiral thiophosphate or
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      Description of Artificial Sequence: synthetic oligonucleotide
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ggatccggtg gtctg
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      15
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gtggaatctc ctgg
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<221> modified_base
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      (1)...(14)
<223>
      wherein at least one nucleotide is an achiral thiophosphate or
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                                                                      14
ccaggagatt ccac
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      modified base
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                                                                      14
gtggaatcyc cygg
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      41
<211>
       30
<212>
      DNA
      Artificial
<213>
<220>
<223> Synthetic oligonucleotide.
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<221> modified base
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<223> wherein at least one nucleotide is an achiral thiophosphate or
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ccaggagatt ccacggatcc ggtggtctgt
                                                                      30
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      45
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      modified base
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      (16)..(16)
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<223> wherein at least one nucleotide is an achiral thiophosphate or
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                                                                     45
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<223> wherein at least one nucleotide is an achiral thiophosphate or
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ccagtgactc agtg
                                                                     14
<210> 44
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                                                                     14
<210> 45
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<223> wherein at least one nucleotide is an achiral thiophosphate or
      dithiophosphate at positions 10, 11.
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<400> 45
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ccaggagatt ccac
<210> 46
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      wherein at least one nucleotide is an achiral thiophosphate or
      dithiophosphate at positions 4, 7, 9, 14.
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                                                                     14
ggtcctctaa ggtg
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<223>
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                                                                     14
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      wherein at least one nucleotide is an achiral thiophosphate or
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<400> 51
                                                                     14
ccaggagatt ccac
<210> 52
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<212> DNA
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<223> Synthetic oligonucleotide.
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<222> (1)..(14)
<223> wherein at least one nucleotide is an achiral thiophosphate or
       dithiophosphate at positions 3, 7, 9, 13.
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<222> (1)..(22)
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ggggttccac cttcactggg cg
                                                                     22
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<223> wherein at least one nucleotide is an achiral thiophosphate or
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                                                                     22
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wherein at least one nucleotide is an achiral thiophosphate or
      dithiophosphate at positions 9, 15.
<400> 58
                                                                      22
ggggttccac cttcactggg cg
<210> 59
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<221> modified base
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<223> wherein at least one nucleotide is an achiral thiophosphate or
      dithiophosphate at positions 6, 11, 12, 18, 19.
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cgcccagtga aggtggaacc cc
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      dithiophosphate at positions 6, 10, 18.
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<210> 62
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<221> misc_feature
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      Description of artificial sequence: synthetic oligonucleotide
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<221>
      modified base
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      (1)..(22)
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      wherein at least one nucleotide is an achiral thiophosphate or
       dithiophosphate at positions 6, 18.
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      misc_feature
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ggggttccac cttcactggg cg
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      22
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<213> Artificial
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<221> misc_feature
<223> Description of artificial sequence: synthetic oligonucleotide
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                                                                      22
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      dithiophosphate at positions 1, 3, 5, 7, 9, 11, 13, 15, 17, 19,
      21, 23, 25, 27, 19, 31, 33.
<400> 67
gauccugaaa cuguuuuaag guuggccgau c
                                                                     31
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      (1)..(31)
<223> wherein at least one nucleotide is an achiral thiophosphate or
       dithiophosphate at positions 3, 5, 7, 9, 11, 13, 15, 17, 19, 21,
       23, 25, 27, 29, 31.
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                                                                      31
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      (1)..(61)
<223> wherein at least one nucleotide is an achiral thiophosphate or
       dithiophosphate at positions 3, 5, 7, 9, 11, 13, 15, 17, 19, 21,
       23, 25, 27, 29, 31.
<400> 69
cctactcgcg aattccuagg acuuggcaca accgucacac ugcuagggat ccggtggtct
                                                                      60
                                                                      61
g
<210> 70
<211> 61
<212> DNA
<213> Artificial
<220>
<223> Artificial oligonucleotide.
<220>
<221> modified base
<222>
      (1)..(61)
<223>
      wherein at least one nucleotide is an achiral thiophosphate or
      dithiophosphate at positions 3, 5, 7, 9, 11, 13, 15, 17, 19, 21,
       23, 25, 27, 29, 31.
<400> 70
cctactcgcg aattcgaucc ugaaacuguu uuaagguugg ccgaucggat ccggtggtct
                                                                      60
                                                                      61
g
```

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